

## Union Tool . . . the Professional's choice

Union Tools are manufactured to the highest standards of the American Precision Tool Industry. They are designed by professionals for use by professionals. Lasting accuracy, convenience and smooth operation are the benefits of superior craftsmanship and "tripletested" tool steel. Attention to every detail in the manufacturing process means years of service in the field even under hard usage — which is what it sometimes takes to get the job done.

Component parts are individually lapped

and fitted for squareness and parallelism. Our special etching techniques, for example, produces an extremely fine graduation line which ensures accuracy which is often lost with heavier markings.

And, Union Tools are polished, brushed, hardened, ground, tempered, etched and finished to look as good as they really are. Quality work begins with quality tools. So, for the professional machinist, carpenter, craftsman or artisan, it's **Union Tools**...another member of **The Tool Group**.

# warranty

Every tool stamped with the Union brand name is warranted free from imperfections and defects in material or workmanship. Our obligation under this warranty is expressly limited to the following: If any tool proves to be imperfect or defective under conditions of normal use, we agree to repair or replace the tool, if immediately returned to the nearest Millers Falls Distribution Center, transportation charges prepaid. Under no circumstances, however, do we assume responsibility for breakage where flaws do not appear or for tools which have suffered from abusive treatment or which have been stamped with the owner's markings, changed or experimented upon.

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# UNION TOOL precision tools

# NEW! Union Precision Tool Display Merchandise

New pre-pack cabinet merchandiser offers most popular and profitable Union brand precision tools.

If you're not taking advantage of the highly profitable and fast turn precision tool business, then here's a great opportunity to get started now! Millers Falls new No. U2444 merchandiser can open the door to this profitable and rapidly expanding market.

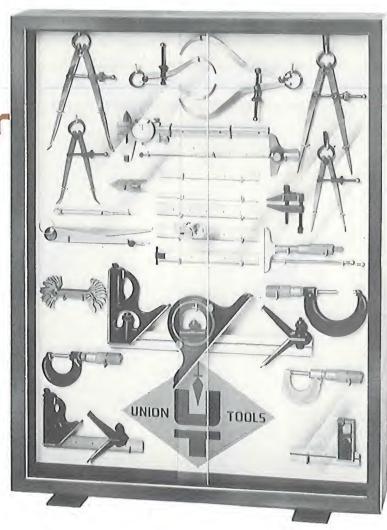
We've selected the most popular Union brand precision tools and put them in an attractive custom display cabinet that features plexiglass sliding doors, security lock and retractable steel legs for use on counter, shelf or window.

Cabinet is also equipped with removable hooks for use on standard pegaboard wall fixtures.

Compact and highly visible unit displays over \$250 worth of precision tools in less than one square foot of selling space.

This quality \$50 value display can be yours absolutely free of charge by simply ordering No. U2444 Precision Tool Merchandiser Package.

Contact your Tool Group representative today. He'll put you on your way to bigger profits.



#### No. U2444 Union Precision Tool Merchandiser Package

					O
CAT. NO.	DESCRIPTION	QUANTITY	CAT. NO.	DESCRIPTION	QUANTIT
U10-4	Spring Divider	3	U405-5	Flexible Rule	4
U10-6	Spring Divider	3	U425-6	Flexible Rule	4
U12-4	Outside Caliper	3	U426-6	Flexible Rule	2
U12-6	Outside Caliper	3 3 3 3 3	U430	Narrow Rule	2 2 6
U14-4	Inside Caliper	3	U441	Center Gauge	6
U14-6	Inside Caliper	3	U458	Dial Caliper	1
U19-6	Hermaphrodite	3	U550	Machinist Clamp	5
0100	Caliper	•	U625-44	Double Square	2
U50	Thread Gauge	2	U811	1" Micrometer	1
U206-24	Machinist Square	2	U812	2" Micrometer	1
U212-34	Machinist Square Set	2 2 3	U831CT	Satin Chrome Micrometer	1
U317	Pocket Scriber	6	U833	Depth Micromete	r 1
U331 U401-1	Angle Depth Gaug	e 2 2	U2114	Cabinet Display (\$50 Value)	1



U212-16

92

### Combination Squares.

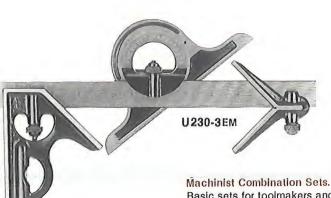
Cast hard gray iron square and miter head with black enamel finish. Fully hardened and tempered steel blade with etched graduations and double inch figures. Quick reading figures on fine graduations. Meets Fed. Spec. Type VI, Class A.

	U212-24 U218-24 U224-24	12" 18" 24"	One face 8ths and 16ths, Other face 32nds and 64ths
S	U212-26	12"	One face 32nds and 64ths,
	U218-26	18"	Other face 50ths and 100ths
			(
	U204-24	4"	One face 8ths and 16ths,
	U206-24	6"	Other face 32nds and 64ths
s	U204-26	4"	One face 32nds and 64ths,
	U206-26	6"	Other face 50ths and 100ths
	*		
	U204-14	4"	One face 8ths and 16ths,
	U206-14	6"	Other face 32nds and 64ths
	U204-16	4"	One face 32nds and 64ths,
	U206-16	6"	Other face 50ths and 100ths
			*
	U212-14 U218-14 U224-14	12" 18" 24"	One face 8ths and 16ths, Other face 32nds and 64ths
	U212-16	12"	One face 32nds and 64ths,
	U218-16	18"	Other face 50ths and 100ths



# UNION TOOL precision tools

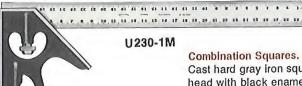
# METRIC & METRIC/ENGLISH TOOLS



Basic sets for toolmakers and machinists consisting of square and milter head, center head and bevel protractor, made of cast hard gray iron. Blade fully hardened and tempered. Etched graduations and figures. Double indexed protractor graduated 180 degrees in both directions. All cast Iron parts finished with durable black enamel.



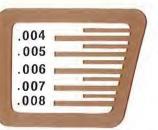
Combination Squares With Center Head.
Cast hard gray iron square head and center head with black enamel finish.
Fully hardened and tempered steel blade with etched graduations. Full bedded level vial with double, black hair-lines and cats-eye filler.



Cast hard gray iron square and miter head with black enamel finish. Fully hardened and tempered steel blade with etched graduations.

Replacement Square Blades. Fully hardened and tempered steel blade with etched graduations.

Cat. No.	Blade Length	Graduation
U230-3M	30 Cm.	Metric One face: mms Other face: one edge mms other edge ½ mms
U230-3EM	12"	Metric/English One face: 32nds and 64ths in. Other face: one edge mms other edge ½ mms
U230-2M	30 Cm.	Metric One face: mms Other face: one edge mms other edge ½ mms
U230-2EM	12*	Metric/English One face: 32nds and 64ths in. Other face: one edge mms other edge ½ mms
U230-1M	30 Cm.	Metric One face: mms Other face: one edge mms other edge ½ mms
U230-1EM	12"	Metric/English One face: 32nds and 64ths in. Other face: one edge mms other edge ½ mms
U230-M U230-EM	30 Cm. 12"	Metric Metric/English



# UNION TOOL precision tools



## MACHINIST DOUBLE SQUARES

Machinist Double Squares. Precision ground hard gray iron casting. Fully hardened and tempered steel blade with etched graduations. Used as double square for checking inside and outside squareness. Can be used as a parallel.

## MACHINIST SQUARE BLADES

Machinist Square Blades, Fully hardened and tempered tool steel blades suitable for use as straight edge. Machine subdivided. Acid etched black figures and graduations. Double inch figures on 12", 18" and 24" blades. Quick reading figures on fine graduations. Non-reflecting satin brushed finish.



Cat. No.	Blade Length	Graduation
U625-44 U625-64 U625-46 U625-66	4" 6" 4" 6"	One face 8ths and 16ths, Other face 32nds and 64ths One face 32nds and 64ths, Other face 50ths and 100ths
U204-4 U206-4 U212-4 U218-4 U224-4	4" 6" 12" 18" 24"	One face 8ths and 16ths, Other face 32nds and 64ths
U204-6 U206-6 U212-6 U218-6	4" 6" 12" 18"	One face 32nds and 64ths Other face 50ths and 100ths
U230-M		Metric One face: mms Other face: one edge mms other edge ½ mms
U230-EM		Metric/English One face: 32nds and 64ths In. Other face: one edge mms other edge ½ mms



#### BEVEL PROTRACTORS

Bevel Protractor. Double indexed protractor graduated 180 degrees in both directions can be read from either Index. Body has wide base for support when used with blade in vertical position. Wide base facilitates use as depth gauge and inclinometer. Level vial has steel guard.





## MACHINIST SQUARE HEADS

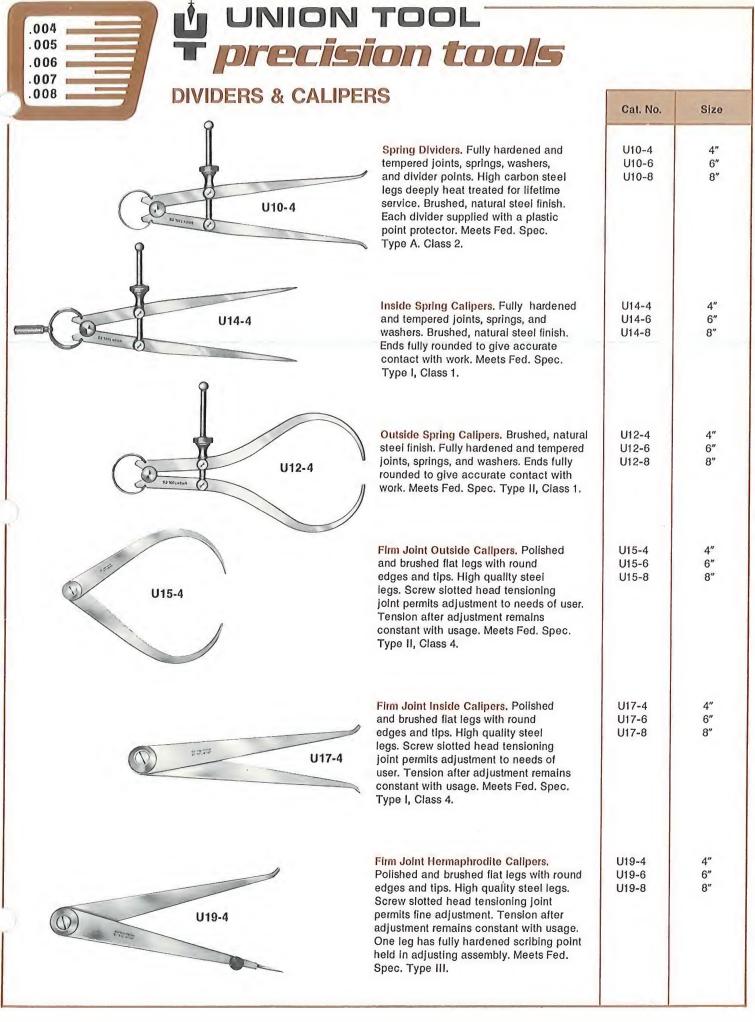
Machinist Square Heads. Hard gray Iron heads with durable black enamel finish. Steel parts, brass scriber bushing, and cateye level vial. All working surfaces precision machined and tested.



## MACHINIST CENTER HEADS

Machinist Center Heads. Hard gray iron body with black enamel finish. Steel parts. Precision tested.

Cat. No.	Specifications	
U225	One level vial Graduated 180° both directions Double indexed	
U200 U201	For 4" and 6" blades For 12", 18" and 24" blades	,
U202 U203	For 4" and 6" blades For 12", 18" and 24" blades	(



# ប់ UNION TOOL precision tools

Cat.

U405-5

U423-6

U423C-6

6"

6"

1/2"

1/2"

.015"

.015"

One face 10ths

face 32nds and

64ths

and 100ths, other

## PRECISION RULES

Machinist Rules. Spring tempered, tool steel, precision ground rules. Machine subdivided, acid etched graduations. Satin brushed finish. Meets Federal Spec. Type IV, Class 1. "C" denotes chrome finish.

U405-5

Hook Rules. Spring tempered, tool steel, precision ground rules. Machine cut graduations. Quick reading figures on fine graduations. Double hook rigidly held by eccentric stud. "C" denotes chrome finish.



U401-1



Narrow Rule. Spring tempered, tool steel, precision ground rule. Machine cut graduations.

U420-6

Flexible Steel Rule. Fully flexible tempered rule steel .015" thick. Precision ground. Machine subdivided, acid etched graduations one face only. Satin brushed finish.

96

U425-6

Flexible Steel Rules. Fully flexible, tempered, rule steel, precision ground. Machine subdivided acid etched graduations. Satin brushed finish. Quick reading figures on fine graduation face. "C" denotes chrome finish.

#### PRECISION RULES

Union brand rules are made to the highest standards of the American Precision Tool Industry. These precision scales are machine divided, acid etched, and precision ground. They are finished to the most critical tolerances.

Our special etching techniques produce an extremely fine graduation line which insures an accuracy lost with the heavy, wide graduation lines found on many competitive products.

When precision counts, your choice should be a Union rule.

Pocket Rules, Etched stainless steel rule with decimal equivalent charts on back. Graduated in 32nds & 64ths with "easy reading" numbering. Precision etched, unground edges.

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U500

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U423-6

Flexible Rules, All purpose graduation, precision rule. Standard 32nd and 64ths on one face, 10ths and 100ths for fine work on other face. Fully flexible, tempered rule steel. Master precision ground, satin brushed finish, quick reading figures on all graduations. "C" denotes Chrome finish.

One face 8ths U405C-5 6" 3/4" and 16ths. U405-8 12" other face 32nds U405-10 1" 18" and 64ths 24" 1" U405-13 U405-7 6" 3/4" One face 32nds and 64ths. U405-9 12" 1" 1" U405-11 18" other face 50ths U405-14 24" and 100ths One face 8ths U401-1 6" 3/4" U401-3 12" 1" and 16ths. U401-5 18" 11/8" other face 32nds U401-7 24" and 64ths 11/4" 6" One face 32nds U401-2 3/4" 1" U401-4 12" and 64ths. U401-6 18" 11/8" other face 50ths U401-8 24" 11/4" and 100ths U430 6" Two edges only, 7/32" 32nds and 64ths 6" 1/2" U420-6 .015" Two edges only, 32nds and 64ths .015" U425-6 6" 1/2" One face 8ths U425C-6 6" 1/2" .015" and 16ths. other face 32nds and 64ths U426-6 6" 1/2" .015" One face 32nds and 64ths, U426C-6 6" 1/2" .015" other face 50ths and 100ths 6" U426S-6 1/2" .015" One face 32nds U426SC-6 6" .015" and 64ths, 1/2" other face 10ths and 50ths 6" U500 32nds and 64ths 6" with pocket clip U505

Thick-

ness

Graduations

Length Width

3/4"

6"

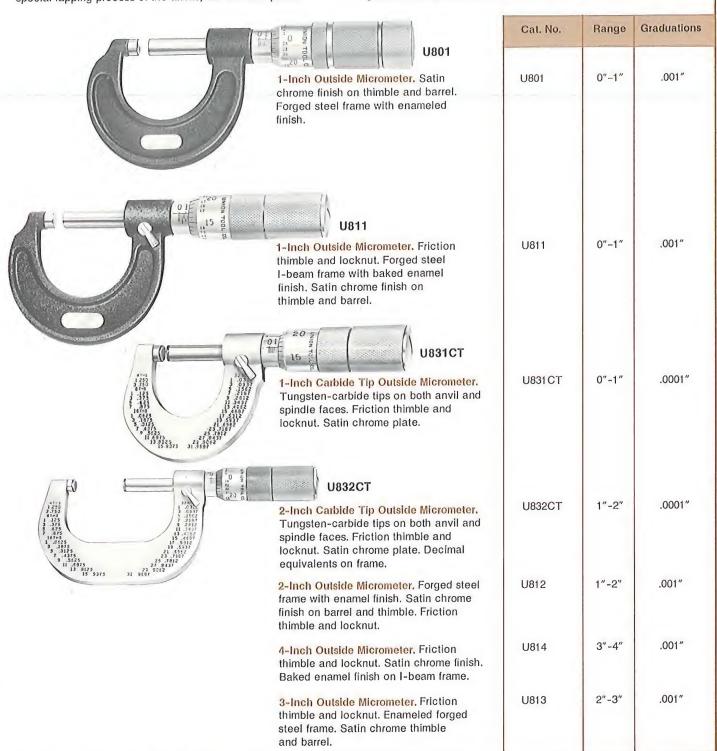
# PRECISION MICROMETERS

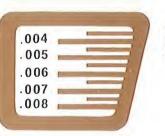
Union Micrometers are designed for lasting accuracy, convenience, and smooth operation. Here are precision built micrometers of superior craftsmanship and tool room accuracy.

The forged steel frames are designed for balance and will withstand years of hard usage. The one-piece spindle and screw are made of the finest, triple-tested tool steel. Spindles are individually lapped and fitted into each micrometer. A special lapping process of the anvils, and the one piece

spindle and screw, provide squareness and parallelism.

Where supplied, the friction thimble provides one hand friction control throughout the entire measuring range. The knurled section of the thimbles are proportioned such that one can use direct feel or friction stop control. The thimble and barrel are of generous proportion, allowing extra space between graduations for easier reading. All thousandths graduations are numbered and can be read directly.





# ប្រាលា Tool precision tools



4-Inch Range Micrometer Kit. One micrometer that can do the work of four. Three interchangeable extensions, individually adjustable, enable one to measure any item from 0"-4". Crowned face on anvil prevents gagging. Complete with three standards. Satin chrome finish, forged I-beam frame, friction thimble and lock nut. Supplied in fitted leatherette case.

Cat. No.

U824

U833

U834

U833-2

Range

0"-4"

0"-3"

0"-3"

4"-6"

7/16" x 4" base

7/16" x 21/2" base

Graduations

.001"

.001"

.001"



3-Inch Depth Micrometer Kit. For accurate measurement of depth of holes, slots, shoulders, and projections.

Measures by 1/1000. Three measuring rods give 0"-3" capacity. Satin chrome finish. Furnished complete with fitted leatherette covered case.

3-Inch Depth Micrometer Kit. Same as No. 833, but with 4" long base. Range 0"-3". Measures by 1/1000. Furnished in fitted leatherette covered case.

Measuring Rods. Set of 3 finished steel rods ground straight and true. Range from 4" to 6". For use with U833 and U834.



U563-1



U836

Micrometer Standards. Test gauges of finest quality alloy steel. Hardened, lapped parallel.

8-Inch Inside Micrometer Kit. Satin chrome finish. Measures 2"-8". Graduated In .001". Furnished with 4 measuring rods, spacing collars and extension handle in fitted leatherette covered case.

U563-1 U563-2 U563-3	Calibra	ates zero of 1"-2" ates zero of 2"-3" ates zero of 3"-4"	
U836	2"-8"	.001″	
			(

U460

U464

# UNION TOOL precision tools

Dial

Diameter

Reading

Range

0"-6"

0"-6"

0"-6"

.030"

.030"

.0005"

.0005"

Graduations

.001"

.001"

.001"

0-15-0

0-15-0

Cat. No.

U458

U460

U464

U893

U892

1"

1"

CALIPERS

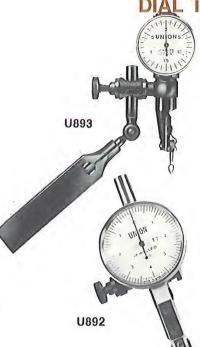


.001". Adjustable dial and tolerance rings. Accurate to plus or minus .001". 0"-6" range. Packed in leather case. 2 5 4 5 6 1 5 9 10 11 9 13 14 15 16 17

> Vernier Calipers. Measuring surfaces are hardened, ground and lapped for long service. Stainless steel construction with chrome finish. Vernier scales of .001" and 1/128". OUTSIDE, INSIDE, and DEPTH measurement read directly on extra long vernier. Spring thumblock. 0"-6" range.

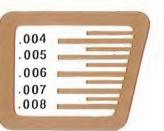
Vernier Calipers With Fine Adjustment. Stainless steel with satin chrome reading surfaces. Double set screw for fine adjustment. INSIDE, OUTSIDE and DEPTH measurement read directly on large vernier in .001" or 1/20 mm. 0"-6" range.

**TEST INDICATORS** 



Dial Test Indicator. A jewelled movement providing durability, smoothness and unmatched "repeatability." Tubular body swivels within body clamp. Unique pear shaped and hardened contact point ratchets a full 180 degrees. Fully reversible. Dial rotates for zero setting. Furnished complete with universal holder, body clamp, and spare point in fitted metal jewel case.

Dial Test Indicator. A rugged indicator for precision layout work, inspection, indicating, etc., at a moderate price. Quality construction assures long life and accuracy. Unique pear shaped contact point is hardened for wear and gives accurate indication in all positions. Contact point' ratchets through 180 degrees. Side mounted level reverses indicator. Dial rotates for any zero setting. Furnished complete with dovetail clamp, universal holder, and spare point in fitted plastic case.



# UNION TOOL precision tools

			<b>&gt;</b>
U	889		
	U	U889	U889

Magnetic Base Indicator Holder. This
magnetic base indicator holder with rod
connector and two-diameter rod is an
excellent accessory for any of our dial
indicators. Magnetic base grips to flat
and curved surfaces. Steel post is 1/16"
diameter and 3¾" long. Overall
height is 6".



#### Universal Dial Test Indicator Set.

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recision made, jewelled indicator for	
se where extremely accurate	
eterminations are needed. Rear	
nounted plunger or an end mounted	
ndicator point provide universal	
pplication. Graduated in increments of	
001" and reads 0-50-0, giving a 0.200"	
ange. Range with the end type indicator	
oint is .125". Zero setting by means of	
rotating bezel. Set consists of: dial	
est indicator; two contact points; end	
dicator point with guide and cap; 8"	
ectional rod; attaching clamp; universal	
od connector; tool post holder. Complete	
et is furnished in a fitted metal case.	



One Inch Dial Indicator Set With Magnetic Base, Very accurate 1" range indicator with large 21/4" diameter dial. Dial is continuous with revolution counter and can be rotated and locked for zero setting. Complete with magnetic base, packaged in fitted steel case.

U891

Cat. No.

U889

11/2" dial diam. 0-50-0 reading .001" graduation .200" range

Specifications

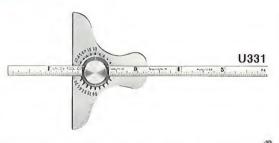
1/16" diam. x 33/4" long steel post, 6" overall height

U890

21/4" dial diam. .001" graduation 0"-1" range

# union tools precision tools

**GAUGES** 



#### Adjustable Angle Depth Gauge.

Adjustable angle depth gauge with rod. Head marked on both sides of adjusting stud in 15 degree increments. Hardened, bright polished head with precision ground base grooved to hold rod (3/32" diameter). Narrow rule held under adjusting nut by spring tempered washer which is notched to fit increment grooves in head.

-	
U331	Two edges only, 32nds and 64ths 3/32" diam. rod
U330	Two edges only, 32nds and 64ths 6" long x 1/32" wide x .040" thick rule

Specifications

Cat. No.

U85



Depth Gauge. Fixed, 90 degree angle depth gauge with 2½" precision ground work base. Mottled, case hardened finish on head. Supplied with 6 inch long, .040 inch thick, ¾2 inch wide rule. (Union No. U430). Rule is precision ground to fit head. Meets Fed. Spec. Type II, Class 1.



Thread Gauges. Compact gauges for determining inside or outside threads per inch according to V, Unified, American National and U.S. Standard—60 degree threads. With 11½ and 27 pipe thread pitches.

U50 30 pitches from 4 thru 42 22 pitches from 9 thru 40 U52 30 pitches from 6 thru 60

U85

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Tap and Drill Gauge. Useful gauge which provides the correct size tap drill for common machine screw taps in "NF" or "NC". Gives correct body size drill. 60 holes marked with number size and decimal equivalent. Tap size, 2-56 to ¼-28. Tap drill, 50 to 3. Body drill, 44 to ¼. Constructed of heavy gauge steel with satin chrome plate for complete rust protection. Carded.

Tap Size: 2-56 to ¼-28 Tap Drill: 50 to 3 Body Drills: 44 to ¼ Measures 2½" x 6½"

U86

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Fractional Drill Gauge. Provides fractional sizes ½6 to ½" by 64ths. 29 holes with drill size in inches and in decimal. Satin chrome plated heavy gauge steel. Carded.

U86 Sizes ½6"-½" by 64ths Measures 2½" x 6½"

**U87** 



Letter Size Drill Gauge. 26 gauging holes for letter sizes A to Z, with decimal equivalents. Satin chrome plated heavy gauge steel. Carded.

U87 Letter sizes A-Z



102

# UNION TOOL precision tools

.008		Cat. No.	Specifications
11111111111111111111111111111111111111	Center Gauge. Made of quality steel, fully hardened with lapped edges and notches according to American National and U.S. 60 degree standards. Useful for setting screw cutting tools, lathe centers, threads per inch, etc.	U441	Graduated 14ths, 20ths, 32nds
U550	Machinists Clamps. Designed for maximum strength, rigidity, and parallel clamping. Deep case hardened steel finish. Screw heads drilled to allow use of pin for tightening. Spring clip holds screw on loose jaw.	U550 U551 U552	1" opening, 2" jaw length 15%" opening, 3" jaw length 2" opening, 4" jaw length
	SCRIBERS		
U320	Scriber. Fine quality steel body with fully hardened point.	U320	6" long
U317	Removable Point Scriber. Knurled aluminum body with chuck that holds fully hardened point. Can be removed and reversed for protection.	U317	51⁄4″ long
U321	Fixed Point Scriber. Combination scriber with one straight and one bent point. Top quality steel. Fully hardened points. Fixed body.	U321	8½" long
U322	Scriber and Packing Hook. Fully hardened, straight scribing point at one end—hook at other end.	U322	7″ long
U318	Replaceable Points Scriber. Made of fine quality steel with carefully tapered, fully hardened points. Straight point at one end, bent point at other end.	U318	8½" long

TOOL	CHEST	R.	KITS
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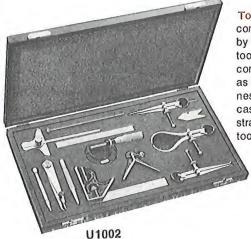
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> Toolmakers Chest. First choice of the machinist and tool and die maker. Features seven felt lined drawers plus a lined tool till on top. Smooth sliding drawers have stops to prevent spilling, but can be removed for cleaning. Full length piano hinge cover. Front panel stores beneath drawer. Secure lock and nickel plated catches. Finished in wrinkled dark brown baked enamel.

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	DIMENSIONS								
	Part	Length	Width	Height					
	Chest Closed	201/8"	81/2"	131/2"					
	Top Tool Till	20"	81/2"	21/8"					
	4 Drawers	81/2"	71/8"	1"					
	1 Drawer	81/2"	71/8"	11/8"					
	1 Drawer	181/8"	71/8"	11/2"					
	1 Drawer	181/8"	71/8"	21/4"					

**Specifications** 



Tool Kit. This new kit contains a more complete set of the basic tools required by the apprentice mechanic, machinist or toolmaker. Kit has three more tools than competitive kits offer and at same cost as these lesser equipped sets. All tools nested in a sturdy leatherette covered case for easy access. No cumbersome straps or loops are necessary to secure

Basic Toolmakers Kit. This basic kit is ideally suited for use by toolmakers. Tools are of standard quality and guaranteed accuracy. Supplied in a durable fitted case. Case size closed is 8" x 121/2" x 11/4".

U1002

U1000

U1250

#### Kit contains:

U206-24 Combination Square with Center Head Center Gauge U441 U10-4 Spring Divider Outside Spring Caliper U12-4 Inside Spring Caliper U14-4 Hermaphrodite Caliper U19-4 #5 Grad. Rule U423-6 U32-9 Center Punch U317 Pocket Scriber

Adjustable Angle Depth Gauge U331

Micrometer U811



Kit contains:

U206-24 Combination Square with Center Head Center Gauge U441 Spring Divider U10-4 Outside Spring Callper U12-4 Inside Spring Caliper U14-4 U19-4 Hermaphrodite Caliper U425-6 Rule

U32-9 Center Punch

# THE TOOL GROUP

When you do roughly a billion dollars worth of business a year; are the largest combined producer of air, electric, hand and cutting tools in the world; have a national distribution system with centers in California, Connecticut, Ohio, Texas and points in between; warehouse \$10,000,000 worth of finished goods; and run a network of service centers that really give service: when you do just about everything connected with tools and have done it for over a hundred years: WHAT DO YOU DO NOW?

THE TOOL GROUP is What we've done now!

The Tool Group is a new sales and marketing organization featuring Millers Falls, Union, Proto, Challenger, and Fleet brand names. The Tool Group combines the strength, experience and product lines of these well-known brands to offer portable electric tools, metal cutting, hand, precision and air tools. The Tool Group brings you trusted quality in tools through a professional consolidated selling organization.

In short, to you our single source capability means prompt action, more efficient buying, simplified ordering, easier inventory control and economical shipments.

You'll be seeing and hearing more about the men with the answers from THE TOOL GROUP.